**MongoDB All Program**

**-----------------------------------------------------------------------------**

**1. create a database**

use collage

**output:-**

switched to db collage

**----------------------------------------------------------------------------------------------------------**

**10. VIEW STORAGE SIZE OF COLLECTION IN MONGODB**

use collage

db.createCollection("stud")

show collections

db.stud.storageSize()

**output:-**

8192

**----------------------------------------------------------------------------------------------------------**

**11. VIEW SIZE OF COLLECTION IN MONGODB**

use collage

db.createCollection("stud")

db.stud.insert({"name":"bhautik","age":20})

db.stud.find()

db.stud.dataSize()

**output:-**

112

**----------------------------------------------------------------------------------------------------------**

**12. insert record in collection**

use collage

db.createCollection("stud")

db.stud.insert({"name":"bhautik","age":20})

db.stud.find()

**output:-**

Inserted 1 record(s) in 1ms

{

"\_id" : ObjectId("62f0968e648b102f9951fa57"),

"name" : "bhautik",

"age" : 20.0

}

**----------------------------------------------------------------------------------------------------------**

**13. insetr record using variable in collection**

use collage

db.createCollection("stud")

var s=[

{

"rlno":1,

"name":"bhautik"

},

{

"rlno":2,

"name":"bhargav"

}

]

db.stud.insert(s)

db.stud.find()

**output:-**

{

"\_id" : ObjectId("62f09d21648b102f9951fa67"),

"rlno" : 1.0,

"name" : "bhautik"

}

{

"\_id" : ObjectId("62f09d21648b102f9951fa68"),

"rlno" : 2.0,

"name" : "bhargav"

}

**----------------------------------------------------------------------------------------------------------**

**14. insert a single documents into a collection.**

use collage

db.createCollection("stud")

db.stud.insertOne(

{

"rlno":1,

"name":"maru"

})

db.stud.find()

**output:-**

{

"acknowledged" : true,

"insertedId" : ObjectId("62f0a0ed648b102f9951fa6a")

}

{

"\_id" : ObjectId("62f09f46648b102f9951fa69"),

"rlno" : 1.0,

"name" : "maru"

}

**----------------------------------------------------------------------------------------------------------**

**15. insert a multiple documents into a collection.**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"ali"

},

{

"rlno":2,

"name":"dharmesh"

}])

db.stud.find()

**output:-**

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("62f0a28a648b102f9951fa70"),

ObjectId("62f0a28a648b102f9951fa71")

]

}

{

"\_id" : ObjectId("62f0a238648b102f9951fa6e"),

"rlno" : 1.0,

"name" : "ali"

}

{

"\_id" : ObjectId("62f0a238648b102f9951fa6f"),

"rlno" : 2.0,

"name" : "dharmesh"

}

**----------------------------------------------------------------------------------------------------------**

**16.insert record in save time**

use collage

db.createCollection("stud")

db.stud.insert(

{

"rlno":1,

"name":"ali"

})

db.stud.save(

{

"rlno":10,

"name":"hitesh"

})

db.stud.find()

**output**

{

"\_id" : ObjectId("62f0a445648b102f9951fa74"),

"rlno" : 1.0,

"name" : "ali"

}

{

"\_id" : ObjectId("62f0a48c648b102f9951fa75"),

"rlno" : 10.0,

"name" : "hitesh"

}

**----------------------------------------------------------------------------------------------------------**

**17. DISPLAY ALL DOCUMENTS USING FIND().**

use collage

db.createCollection("stud")

db.stud.insert(

{

"rlno":1,

"name":"ali"

}

)

db.stud.find()

**output:-**

{

"\_id" : ObjectId("62f0a6bc648b102f9951fa79"),

"rlno" : 1.0,

"name" : "ali"

}

**----------------------------------------------------------------------------------------------------------**

**18.display particular record in collections.**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"name":"ali",

"stream":"bcom"

},

{

"name":"bhautik",

"stream":"mscit"

},

{

"name":"bhargav",

"stream":"bca"

}])

db.stud.find({stream:"mscit"})

**output**

{

"\_id" : ObjectId("62f0a915648b102f9951fa7d"),

"name" : "bhautik",

"stream" : "mscit"

}

**----------------------------------------------------------------------------------------------------------**

**19.pretty command**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"name":"ali",

"stream":"bcom"

},

{

"name":"bhautik",

"stream":"mscit"

}

])

db.stud.find().pretty()

**output:-**

{

"\_id" : ObjectId("62f0b1d9648b102f9951fa89"),

"name" : "ali",

"stream" : "bcom"

}

{

"\_id" : ObjectId("62f0b1d9648b102f9951fa8a"),

"name" : "bhautik",

"stream" : "mscit"

}

**-----------------------------------------------------------**

**20. print data json formate**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"name":"ali",

"stream":"bcom"

},

{

"name":"bhautik",

"stream":"mscit"

}

])

db.stud.find().pretty().forEach(printjson)

**output:-**

{

"\_id" : ObjectId("62f0b1d9648b102f9951fa89"),

"name" : "ali",

"stream" : "bcom"

}

{

"\_id" : ObjectId("62f0b1d9648b102f9951fa8a"),

"name" : "bhautik",

"stream" : "mscit"

}

**----------------------------------------------------------------------------------------------------------**

**21. remove insert data in collections.**

use collage

db.createCollection("stud")

db.stud.remove({})

**output:-**

Removed 2 record(s) in 1ms

**----------------------------------------------------------------------------------------------------------**

**22.count method use limit(),skip(),quary**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.find().count()

db.stud.count({stream:"MCA"})

db.stud.find({stream:"MCA"}).limit(2).count(true)

**output**

3

3

2

**----------------------------------------------------------------------------------------------------------**

**update program**

**23.UPDATE A SINGLE DOCUMENT**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"salary":50000

}

])

db.stud.update({rlno:2},{$set:{salary:100000}})

db.stud.find()

**output**

{

"\_id" : ObjectId("62f3310c2af34e840204f17a"),

"rlno" : 1.0,

"name" : "dharmesh",

"salary" : 100000.0

}

**----------------------------------------------------------------------------------------------------------**

**24. update multiple documents in MongoDB by using update()**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"mca"

},

{

"rlno":2,

"name":"bhautik",

"stream":"mca"

},

{

"rlno":3,

"name":"bhautik",

"stream":"mca"

}

])

db.stud.update({stream:"mca"},{$set:{stream:"mscit"}},{multi:true})

db.stud.find()

**output:-**

{

"\_id" : ObjectId("62f334682af34e840204f17f"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "mscit"

}

{

"\_id" : ObjectId("62f334682af34e840204f180"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "mscit"

}

{

"\_id" : ObjectId("62f334682af34e840204f181"),

"rlno" : 3.0,

"name" : "bhautik",

"stream" : "mscit"

} "stream" : "mscit"

}

**----------------------------------------------------------------------------------------------------------**

**25. set operator with specific field**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"mca"

},

{

"rlno":2,

"name":"bhautik",

"stream":"mca"

},

{

"rlno":3,

"name":"bhautik",

"stream":"mca"

}

])

db.stud.update({rlno:1},{$set:{stream:"mscit"}})

db.stud.find()

**output**

Updated 1 existing record(s) in 0ms

{

"\_id" : ObjectId("62f71ac43a6659a6f4ae9277"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "mscit"

}

{

"\_id" : ObjectId("62f71ac43a6659a6f4ae9278"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "mca"

}

{

"\_id" : ObjectId("62f71ac43a6659a6f4ae9279"),

"rlno" : 3.0,

"name" : "bhautik",

"stream" : "mca"

}

**----------------------------------------------------------------------------------------------------------**

**26. unset operator with update**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"mca"

},

{

"rlno":2,

"name":"bhautik",

"stream":"mca"

},

{

"rlno":3,

"name":"hitesh",

"stream":"mca"

}

])

db.stud.update({},{$unset:{rlno:"1"}})

db.stud.find()

**output**

Updated 1 existing record(s) in 0ms

{

"\_id" : ObjectId("63030c92221575dcff212d88"),

"name" : "dharmesh",

"stream" : "mca"

}

{

"\_id" : ObjectId("63030c92221575dcff212d89"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "mca"

}

{

"\_id" : ObjectId("63030c92221575dcff212d8a"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "mca"

}

**----------------------------------------------------------------------------------------------------------**

**27.$inc (increament) in particular field with update**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":2,

"name":"bhautik",

"salary":100000

}

])

db.stud.update({name:"bhautik"},{$inc:{salary:100000}})

db.stud.find()

output

Updated 1 existing record(s) in 1ms

{

"\_id" : ObjectId("63031202221575dcff212d8f"),

"rlno" : 2.0,

"name" : "bhautik",

"salary" : 200000.0

}

**----------------------------------------------------------------------------------------------------------**

**28. $rename operator is used to updates the name of a field**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"salary":10000

},

{

"rlno":2,

"name":"bhautik",

"salary":100000

},

{

"rlno":3,

"name":"hitesh",

"salary":1000

}

])

db.stud.update({rlno:{$gt:0}},{$rename:{rlno:'rollno'}},{multi:true})

db.stud.find()

**output**

Updated 3 existing record(s) in 1ms

{

"\_id" : ObjectId("63031724221575dcff212d97"),

"name" : "dharmesh",

"salary" : 10000.0,

"rollno" : 1.0

}

{

"\_id" : ObjectId("63031724221575dcff212d98"),

"name" : "bhautik",

"salary" : 100000.0,

"rollno" : 2.0

}

{

"\_id" : ObjectId("63031724221575dcff212d99"),

"name" : "hitesh",

"salary" : 1000.0,

"rollno" : 3.0

}

**----------------------------------------------------------------------------------------------------------**

**29. Remove () method is used to remove a document from the collection**

**DELETE ALL DOCUMENT FROM STUD COLLECTION**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"salary":10000

},

{

"rlno":2,

"name":"bhautik",

"salary":100000

},

{

"rlno":3,

"name":"hitesh",

"salary":1000

}

])

db.stud.remove({})

**output**

Removed 3 record(s) in 1ms

**----------------------------------------------------------------------------------------------------------**

**30. DELETE ONE DOCUMENT WHO IS IN MSCIT.{justone}**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.remove({"stream":"MCA"},{justOne : 1})

db.stud.find()

**output**

Removed 1 record(s) in 1ms

{

"\_id" : ObjectId("63031ceb221575dcff212da1"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA"

}

{

"\_id" : ObjectId("63031ceb221575dcff212da2"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA"

}

**----------------------------------------------------------------------------------------------------------**

**31. DELETE ALL DOCUMENT WHERE RLNO > 1**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.remove({rlno:{$gt:1}})

db.stud.find()

**output**

Removed 2 record(s) in 1ms

{

"\_id" : ObjectId("63031e08221575dcff212da6"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA"

}

**----------------------------------------------------------------------------------------------------------**

**32. DELETE ONE DOCUMENT FROM STUD COLLECTION WHO ARE IN MCA.**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.deleteOne({stream:"MCA"})

db.stud.find()

**output**

{

"acknowledged" : true,

"deletedCount" : 1.0

}

{

"\_id" : ObjectId("630320bb221575dcff212db0"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA"

}

{

"\_id" : ObjectId("630320bb221575dcff212db1"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA"

}

**----------------------------------------------------------------------------------------------------------**

**33.MongoDB's deleteMany () method is used to remove a more than one**

**Document from the collection**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.deleteMany({stream:"MCA"})

**output**

{

"acknowledged" : true,

"deletedCount" : 3.0

}

**----------------------------------------------------------------------------------------------------------**

**34. Limit () provides the limitations of documents to be displayed in MongoDB.**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.find().limit(2)

db.stud.find({rlno:{$gt:1}}).limit(1)

**output**

{

"\_id" : ObjectId("6305b030c8d65abcad5638d8"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA"

}

{

"\_id" : ObjectId("6305b859c8d65abcad5638df"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA"

}

**-----------------------------------------------------------**

**35.Skip () methods provides a facility to skip the documents from total documents**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.find().skip(2).pretty()

db.stud.find({rlno: {$gt:1}}).limit(2).skip(1).pretty()

**output**

{

"\_id" : ObjectId("6305b859c8d65abcad5638e0"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA"

}

**----------------------------------------------------------------------------------------------------------**

**36.Sort () methods used to arrange document either in ascending or descending order.**

**->used 1 for ascending order**

**->used -1 for descending order**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.find().sort({rlno:1})

db.stud.find().sort({rlno :-1}).pretty()

**output**

**ascending order**

{

"\_id" : ObjectId("6305ba58c8d65abcad5638e1"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA"

}

{

"\_id" : ObjectId("6305ba58c8d65abcad5638e2"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA"

}

{

"\_id" : ObjectId("6305ba58c8d65abcad5638e3"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA"

}

**distending order**

{

"\_id" : ObjectId("6305ba58c8d65abcad5638e3"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA"

}

{

"\_id" : ObjectId("6305ba58c8d65abcad5638e2"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA"

}

{

"\_id" : ObjectId("6305ba58c8d65abcad5638e1"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA"

}

**----------------------------------------------------------------------------------------------------------**

**AGGREGATION IN MONGODB**

**37. COUNT WITH AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA"

}

])

db.stud.find().count() //simple count

db.stud.aggregate([]) //simple aggregate

db.stud.aggregate([]).toArray().length // aggregate count with array

**output**

3

**38. $match WITH AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot"

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot"

}

])

db.stud.find({city:"Rajkot"}).pretty();

db.stud.aggregate({ $match:{city:"Rajkot"}}).pretty();

**output**

{

"\_id" : ObjectId("631c2a9b140c166845220220"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA",

"city" : "Rajkot"

}

{

"\_id" : ObjectId("631c2a9b140c166845220221"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA",

"city" : "Rajkot"

}

---------------------------------------------------------------------------------------------------------------------------------------------

**39. $match WITH $lt AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad",

"percentage":50

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot",

"percentage":90

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot",

"percentage":70

}

])

db.stud.find({percentage:{$lt:60}}).pretty()

db.stud.aggregate({$match:{percentage:{$lt:60}}}).pretty();

**output**

{

"\_id" : ObjectId("63200b38f5a060a4903dd9af"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA",

"city" : "ahmadabad",

"percentage" : 50.0

}

**40. $match WITH $ne AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad",

"percentage":50

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot",

"percentage":90

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot",

"percentage":70

}

])

db.stud.find({city:{$ne:"Rajkot"}}).pretty();

db.stud.aggregate({$match:{city:{$ne:"Rajkot"}}}).pretty();

**output**

{

"\_id" : ObjectId("63200b38f5a060a4903dd9af"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA",

"city" : "ahmadabad",

"percentage" : 50.0

}

**41. $group AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad",

"percentage":50,

"state":"Rajasthan"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot",

"state":"gujrat",

"percentage":90

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot",

"percentage":70,

"state":"Rajasthan"

}

])

db.stud.aggregate(

{

$group:{\_id:"$state", minPercentage:{$min:"$percentage"}}

}

);

**Output**

{

"\_id" : "gujrat",

"minPercentage" : 90.0

}

{

"\_id" : "Rajasthan",

"minPercentage" : 50.0

}

---------------------------------------------------------------------------------------------------------------------------------------------

**42. $sort AGGREGATION(assending and disending)**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad",

"percentage":50,

"state":"Rajasthan"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot",

"state":"gujrat",

"percentage":90

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot",

"percentage":70,

"state":"Rajasthan"

}

])

db.stud.aggregate({$sort:{percentage:1}})

db.stud.aggregate({$sort:{percentage:-1}})

**output:**

{

"\_id" : ObjectId("63201122f5a060a4903dd9b5"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA",

"city" : "ahmadabad",

"percentage" : 50.0,

"state" : "Rajasthan"

}

{

"\_id" : ObjectId("63201122f5a060a4903dd9b7"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA",

"city" : "Rajkot",

"percentage" : 70.0,

"state" : "Rajasthan"

}

{

"\_id" : ObjectId("63201122f5a060a4903dd9b6"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA",

"city" : "Rajkot",

"state" : "gujrat",

"percentage" : 90.0

}

**Disendding**

{

"\_id" : ObjectId("63201122f5a060a4903dd9b6"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA",

"city" : "Rajkot",

"state" : "gujrat",

"percentage" : 90.0

}

{

"\_id" : ObjectId("63201122f5a060a4903dd9b7"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA",

"city" : "Rajkot",

"percentage" : 70.0,

"state" : "Rajasthan"

}

{

"\_id" : ObjectId("63201122f5a060a4903dd9b5"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA",

"city" : "ahmadabad",

"percentage" : 50.0,

"state" : "Rajasthan"

}

**43. $skip AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad",

"percentage":50,

"state":"Rajasthan"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot",

"state":"gujrat",

"percentage":90

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot",

"percentage":70,

"state":"Rajasthan"

}

])

db.stud.aggregate({$skip:2})

**Output:**

{

"\_id" : ObjectId("63201122f5a060a4903dd9b7"),

"rlno" : 3.0,

"name" : "hitesh",

"stream" : "MCA",

"city" : "Rajkot",

"percentage" : 70.0,

"state" : "Rajasthan"

}

**44. $limit AGGREGATION:**

use collage

db.createCollection("stud")

db.stud.insertMany([

{

"rlno":1,

"name":"dharmesh",

"stream":"MCA",

"city":"ahmadabad",

"percentage":50,

"state":"Rajasthan"

},

{

"rlno":2,

"name":"bhautik",

"stream":"MCA",

"city":"Rajkot",

"state":"gujrat",

"percentage":90

},

{

"rlno":3,

"name":"hitesh",

"stream":"MCA",

"city":"Rajkot",

"percentage":70,

"state":"Rajasthan"

}

])

db.stud.aggregate({$limit:2})

**output**

{

"\_id" : ObjectId("63201122f5a060a4903dd9b5"),

"rlno" : 1.0,

"name" : "dharmesh",

"stream" : "MCA",

"city" : "ahmadabad",

"percentage" : 50.0,

"state" : "Rajasthan"

}

{

"\_id" : ObjectId("63201122f5a060a4903dd9b6"),

"rlno" : 2.0,

"name" : "bhautik",

"stream" : "MCA",

"city" : "Rajkot",

"state" : "gujrat",

"percentage" : 90.0

}

----------------------------------------------------------------------------------------------------------------------------------------------

**MONGODB DATABASE**

**Window 7 and php version low**

**45. connection.php(static data)**

<?php

$m= new MongoClient();

echo "connection to database successfully";

$db=$m->mydbs;

echo "<br> database mydb is selected";

$collection =$db->createCollection("mydb");

echo "<br> collection created successfully";

?>

**46. insert.php**

<?php

    $m=new MongoClient();

    echo "connection to database successfully";

    $db=$m->mydb;

    echo "Database mydb is selected";

    $collection=$db->emp;

    echo "collection created successfully";

    $document=array("emp"=>"MEET","salary"=>"8000");

    $collection->insert($document);

    echo "document inserted successfully";

?>

**47. delete.php**

<?php

$m= new MongoClient();

echo "<br>connection to database successfully";

$db=$m->mydb;

echo "<br>database  selected";

$collection = $db->emp;

echo "<br>collection selected successfully";

$collection->remove(array("empnm"=>"MEET"));

echo "<br>documents deleted successfully";

$cursor =$collection->find();

echo "<br>Updated document";

 ?>

**48. update.php**

<?php

    $m=new MongoClient();

    echo "connection to database sucessfully";

    $db=$m->mydb;

    echo "Database is selected";

    $collection=$db->emp;

    echo "collection created successfully";

    $collection->update(array("empnm"=>"hemang"),

    array('$set'=>array("empnm"=>"mital","salary"=>9000)));

    echo "document updated successfully";

?>

FORM DATABASE

**48. form.php**

<html>

<body align="center">

    <form action="MongoConnection1.php" method="post">

        <h1>Employee sheet</h1>

        <table border="2" align="center">

            <tr>

                <td>Enter employee no:-</td>

                <td> <input type="text" name="no" /></td>

            </tr>

            <tr>

                <td>Enter employee name:-</td>

                <td> <input type="text" name="nm" /></td>

            </tr>

            <tr>

                <td>Enter employee salary:-</td>

                <td> <input type="text" name="sal" /></td>

            </tr>

            <tr>

                <td colspan="2">

                    <input type="submit" name="insert" value="Insert" />

                </td>

            </tr>

    </form>

</body>

</html>

**49. Mongoconnecation.php**

<?php

$no=$\_POST['no'];

$nm=$\_POST['nm'];

$sal=$\_POST['sal'];

$m = new MongoClient();

$db = $m->hns;

echo "Connection successfully";

$coll = $db->emp;

echo "Database is found is here";

  $data = array('empno' => $no,'empnm' => $nm,'salary'=> $sal);

$coll->insert($data);

echo "Insert Successfully";

header('Location:/PROGRAMS\_ALL/Record/displaydata1.php');

?>

**50. displaydata1.php**

<?php

    $connection = new MongoClient();

    $database   = $connection->selectDB('hns');

    $collection = $database->selectCollection('emp');

$cursor = $collection->find();

echo "<table border=1>";

echo "<tr><th>EMPNO</th><th>NAME</th><th>SALARY</th>";

   while ($cursor->hasNext()):$data = $cursor->getNext();

        echo "<tr><td>";

        echo $data['empno'];

        echo "</td><td>";

        echo $data['empnm'];

        echo "</td><td>";

        echo $data['salary'];

        echo "</td></tr>";

 endwhile;

    echo "</table>";

    echo "<a href='delete1.php'>Delete</a>";

?>

**51. update.php**

 <html>

    <body>

<form action="" method="post">

Search employee no:- <input type="text" name="no"/><br>

New employee name:- <input type="text" name="nm"/><br>

New employee salary:- <input type="text" name="sal"/><br>

<input type="submit" name="update" value="update"/>

</form>

</body>

</html>

<?php

error\_reporting(0);

$no=$\_POST['no'];

$nm=$\_POST['nm'];

$sal=$\_POST['sal'];

    $m=new MongoClient();

    echo "<br>connection to database sucessfully";

    $db=$m->hns;

    echo "<br>Database is selected";

    $collection=$db->emp;

    echo "<br>collection created successfully";

    $collection->update(array("empno"=>$no),

    array('$set'=>array("empnm"=>$nm,"salary"=>$sal)));

    echo "document updated successfully";

echo "<br><a href='displaydata1.php'>Display</a>";

?>

**52. delete1.php**

<html>

   <body>

<form action="" method="POST">

Search employee no:- <input type="text" name="no1"/><br>

<input type="submit" name ="Delete" value="Delete"/>

</form>

</body>

</html>

<?php error\_reporting(0);

$no = $\_POST["no1"];

$m= new MongoClient();

echo "<br>connection to database suceessfully";

$db=$m->hns;

echo "<br>database  selected";

$collection = $db->emp;

echo "<br>collection selected suceessfully";

$collection->remove(array("empno"=>$no));

echo "<br>documents deleted suceessfully";

$cursor =$collection->find();

echo "<br>Updated document";

echo "<br><a href='displaydata1.php'>Display</a>";

echo "<br><a href='emp\_insert\_textbox.php'>Insert</a>";

echo "<br><a href='update.php'>Update</a>";

 ?>

**Window 10 and php version high**

**53.connection.php**

<?php

$m = new MongoDB\Driver\Manager("mongodb://localhost:27017");

echo "connection to database sucessfully";

$command= new MongoDB\Driver\Command(["create" => 'student']);

 echo "<br> collection created sucessfully";

$cursor =$m->executeCommand("collage",$command);

echo "<br> database mydb is selected";

?>

**54.insert.php**

<?php

$mongo = new MongoDB\Driver\Manager("mongodb://localhost:27017");

    $bulk = new MongoDB\Driver\BulkWrite;

    $doc = array(

        'id'      => new MongoDB\BSON\ObjectID,     #Generate MongoID

        'name'    => 'bhautik',

        'age'     => 21,

        'roll\_no' => 1

       );

    $bulk->insert($doc);

    $mongo->executeBulkWrite('collage.student', $bulk);

    echo "inserted data sucessfully";

?>

**55.update.php**

<?php

$conn = new MongoDB\Driver\Manager("mongodb://localhost:27017");

    $bulk = new MongoDB\Driver\BulkWrite;

    $bulk->update(

        ['\_id' => new \MongoDB\BSON\ObjectID('63118891c2060f1e88001656')],

        ['$set' => ['name' => '22']]

    );

    $conn->executeBulkWrite('bhargav.hitesh', $bulk);

    echo "update data sucessfully";

?>

**56.delete.php**

<?php

$conn = new MongoDB\Driver\Manager("mongodb://localhost:27017");

    $bulk = new MongoDB\Driver\BulkWrite;

    $bulk->delete(['name'=>'hitesh']);

    $conn->executeBulkWrite('bhargav.hitesh', $bulk);

    echo "delete data sucessfully";

?>

**BLOG POST**

**57.blogpost.php**

  <html>

  <head>

         <title>Blog Post Creator</title>

  </head>

  <body>

            <h1>Blog Post Creator</h1>

              <form action="blogpostconn.php" method="post">

            <h3>Title</h3>

            <p>

              <input type="text" name="title" id="title/">

            </p>

            <h3>Content</h3>

            <textarea name="content" rows="20"></textarea>

       <p>

  <input type="submit" name="btn\_submit" value="Save"/>

       </p>

          </form>

    </body>

</html>

**58.blogpostconn.php**

<?php

    try

   {

      $connection = new MongoClient();

      $database   = $connection->selectDB('myblogsite');

       $collection = $database->selectCollection('articles');

      $article =

      array(

             'title' => $\_POST['title'],

             'content' => $\_POST['content'],

             'saved\_at' => new MongoDate()    //$date

            );

        $collection->insert($article);

    }

   catch(MongoConnectionException $e)

    {

      die("Failed to connect to database ".$e->getMessage());

    }

   catch(MongoException $e)

  {

      die('Failed to insert data '.$e->getMessage());

    }

 ?>

  <html>

  <body>

                Article saved. \_id:<?php echo $article['\_id'];?>.

            <a href="blogpost.php">

              do you want to Write another one then click here?

      </a><br>

       <a href="displaydata.php">

              Click here for display data?

       </a>

 </body>

 </html>

**59.displaydata.php**

<?php

try

  {

    $connection = new MongoClient();

    $database   = $connection->selectDB('myblogsite');

    $collection = $database->selectCollection('articles');

  }

catch(MongoConnectionException $e)

  {

    die("Failed to connect to database ".$e->getMessage());

  }

 $cursor = $collection->find();

?>

   <?php

      //while(expression):statement  .....    endwhile;

     while ($cursor->hasNext()):$article =

     $cursor->getNext();

   ?>

   <Br>

     <?php

  echo $article['title'];

  ?>

  <br>

     <?php

  echo substr($article['content'], 0,200).'.......';

  ?>

  <br>

 <?php endwhile; ?>

**Session (counter start and destroy)**

**60.sessionstar.php**

<?php

session\_start();

if(isset($\_SESSION['counter']))

{

    $\_SESSION['counter']+=1;

}

else

{

    $\_SESSION['counter']=1;

}

$a="you have visited this page ".$\_SESSION['counter']."time";

$b="the session  is=".session\_id();

echo $a."<br>";

echo $b;

?>

**Output**

you have visited this page 1time  
the session is=s4g4v75fsn3nl1pcdmbmc4k79p

**61.phpcounter.php**

<?php

session\_start();

    if(isset($\_SESSION['counter']))

    {

        $\_SESSION['counter']+=1;

    }

else

{

    $\_SESSION['counter']=1;

}

$msg="you have visited this page  " .$\_SESSION['counter'] ." time";

$msg1="The  session id is =".session\_id();

?>

<html>

<head>  <title> counter</title></head>

<body>

    <?php echo ($msg); ?><br><br>

    <?php echo ($msg1); ?>

</body></html>

**Output**

you have visited this page 3 time  
The session id is =s4g4v75fsn3nl1pcdmbmc4k79p

**62.session\_demo.php**

<?php

// Start the session

session\_start();

?>

<html>

<body>

<?php

// Set session variables

$\_SESSION["user"] = "Bhautik ";

$\_SESSION["city"] = " rajkot ";

$\_SESSION["pass"] = "Maru Bhautik";

echo "Session variables are set.";

echo $\_SESSION["user"];

echo $\_SESSION["city"];

echo $\_SESSION["pass"];

?>

</body></html>

**Output**

Session variables are set.Bhautik rajkot Maru Bhautik

**63.session\_demo\_view.php**

<?php

session\_start();

?>

<html>

<body>

<?php

print\_r($\_SESSION);

?>

</body>

</html>

**Output**

Array ( [counter] => 3 [user] => Bhautik [city] => rajkot [pass] => Maru Bhautik )

**64.phpcounter\_destroy.php**

<?php

    session\_start();

?>

<html>

<body>

<?php

    //remove all session variable

    session\_unset();

    //destroyed the session

    session\_destroy();

    echo ("counter reset");

?>

    </body>

</html>

**Output**

counter reset

**php counter start and destroy**

**65.phpcounte.php**

<?php

    Session\_start();

    if(isset($\_SESSION['counter']))

    {

        $\_SESSION['counter']+=1;

}

else

{

    $\_SESSION['counter']=1;

}

$msg="you have visited this page  " .$\_SESSION['counter'] ." time";

//$msg1="in this program session id is ";

?>

<html>

<head>

    <title> counter</title>

</head>

<body>

    <?php echo ($msg); ?>

</body>

</html>

**Output**

you have visited this page 1 time

**66.phpcounte\_destroy.php**

<?php

    Session\_start();

?>

<html>

<body>

<?php

            //remove all session variable

            session\_unset();

            //destroyed the session

            session\_destroy();

             echo "php counter destroy";

?>

    </body>

</html>

**Output**

php counter destroy

**Session with database**

**67.** **emp\_insert\_textbox.php**

<html>

    <body>

<form action="MongoConnection1.php" method="post">

Enter employee no:- <input type="text" name="no"/><br>

Enter employee name:- <input type="text" name="nm"/><br>

Enter employee salary:- <input type="text" name="sal"/><br>

<input type="submit" name ="insert" value="Insert"/>

</form>

</body>

</html>

**Output**

Enter employee no:-   
Enter employee name:-   
Enter employee salary:-   


**68**. **MongoConnection.php**

<?php

$no=$\_POST['no'];

$nm=$\_POST['nm'];

$sal=$\_POST['sal'];

$m = new MongoClient();

$db = $m->hns;

echo "Connection successfully";

$coll = $db->emp;

echo "Database is found is here";

   $data = array('empno' => $no,'empnm' => $nm,'salary'=> $sal);

$coll->insert($data);

echo "Insert Successfully";

header('Location:/PROGRAMS\_ALL/Record/displaydata.php');

?>

**Output**

**69.** **dislpay.php**

<?php

try

  {

    $connection = new MongoClient();

    $database   = $connection->selectDB('hns');

    $collection = $database->selectCollection('emp');

  }

catch(MongoConnectionException $e)

  {

    die("Failed to connect to database ".$e->getMessage());

  }

$cursor = $collection->find();

?><?php

echo "<table border=1>";

echo "<tr><th>EMPNO</th><th>NAME</th><th>SALARY</th>";

while ($cursor->hasNext()):$data = $cursor->getNext();

        echo "<tr><td>";

        echo $data['empno'];

        echo "</td><td>";

        echo $data['empnm'];

        echo "</td><td>";

        echo $data['salary'];

        echo "</td></tr>";

 endwhile;

    echo "</table>";

    echo "<a href='delete.php'>Back</a>";

?>

**Output**

**70.** **delete.php**

<html>

    <body>

<form action="" method="POST">

Search employee no:- <input type="text" name="no1"/><br>

<input type="submit" name ="Delete" value="Delete"/>

</form>

    </body>

</html>

<?php error\_reporting(0);

$no = $\_POST["no1"];

$m= new MongoClient();

echo "<br>connection to database suceessfully";

$db=$m->hns;

echo "<br>database  selected";

$collection = $db->emp;

echo "<br>collection selected suceessfully";

$collection->remove(array("empno"=>$no));

echo "<br>documents deleted suceessfully";

$cursor =$collection->find();

echo "<br>Updated document";

echo "<br><a href='displaydata1.php'>Display</a>";

echo "<br><a href='emp\_insert\_textbox.php'>Insert</a>";

echo "<br><a href='update.php'>Update</a>";

 ?>

**Output**

**71.** **update.php**

<html>

    <body>

<form action="" method="post">

Search employee no:- <input type="text" name="no"/><br>

New employee name:- <input type="text" name="nm"/><br>

New employee salary:- <input type="text" name="sal"/><br>

<input type="submit" name="update" value="update"/>

</form>

    </body>

</html>

<?php

error\_reporting(0);

$no=$\_POST['no'];

$nm=$\_POST['nm'];

$sal=$\_POST['sal'];

    $m=new MongoClient();

    echo "<br>connection to database sucessfully";

    $db=$m->hns;

    echo "<br>Database is selected";

    $collection=$db->emp;

    echo "<br>collection created successfully";

    $collection->update(array("empno"=>$no),

    array('$set'=>array("empnm"=>$nm,"salary"=>$sal)));

    echo "document updated successfully";

echo "<br><a href='displaydata1.php'>Display</a>";

?>

**Output**

**Authentication**

**72.** **register.php**

<?php

if(isset($\_POST['submit']))

{

$username=$\_POST['username'];

$password=$\_POST['password'];

$conn = new MongoClient();

        // access database

        $db = $conn->hns;

        // access collection

        $collection = $db->login;

 $data=array("username"=>$username,"password"=>$password);

$collection->insert($data);

echo "Insert Successfully";

header('Location:/auth/final.php');

}

?>

<html>

<body>

<br>

<center><h1> Registration form </h1></center>

<br>

<form action="" method="post">

<label>Username :</label>

<input type="text" Name="username">

<br>

<label>Password :</label>

<input type="password" Name="password">

<br>

<br>

<input type="submit" value="Register" name="submit">

<br>

</form>

</body>

</html>

**Output**

**Registration form**

Top of Form

Username :   
Password :   
  


**73.** **final.php**

<?php

session\_start();

?>

<html>

<body>

<br>

<center><h1> Welcome to Login Page </h1></center>

<br>

<form name="form1" method="post"action="<?=$\_SERVER["PHP\_SELF"]; ?>">

<label>Username :</label>

<input type="text" Name="username">

<br>

<label>Password :</label>

<input type="password" Name="password">

<br>

<br>

<input type="submit" value="Login" name="submit">

<br>

<a href="register.php">Register</a>

</FORM>

</body>

</html>

<?php

if(isset($\_POST['submit']))

{

        $username = $\_POST["username"];

        $password = $\_POST["password"];

  $conn = new MongoClient();

if($conn)

 {      $db = $conn->hns;

        $collection = $db->login;

    $user = $collection->find(array('username'=> $username, 'password'=> $password));

  foreach ($user as $obj)

    {

            $user= $obj['username'];

            $pass= $obj['password'];

    }

            if($username == $user && $password == $pass)

      {

        $\_SESSION['username']=$user;

        header('Location:/auth/page2.php');

            }

            else

      {

                echo 'not found'   ;

            }

  }

}

?>

**Output  
Welcome to Login Page**

Top of Form

Username :   
Password :   
  
  
[Register](http://localhost/bhautik/MongoDB/PROGRAMS_ALL/auth/register.php)

**74.** **page2.php**

<?php

session\_start();

?>

<html>

<head>

<title>User Login</title>

</head>

<body>

<?php

if(isset($\_SESSION['username']))

{

    echo "Welcome:".$\_SESSION['username'];

}

else

{

    header('Location:/auth/final.php');

}

?>

<h1>

Congratulation! You have logged into password protected page. <a href="logout.php">Click here</a> to Logout

</h1>

</body>

</html>

**Output**

**74.** **logout.php**

<?php

session\_start();

unset($\_SESSION["username"]);

header("Location:/auth/final.php");

?>

**Output**

Bottom of Form

Bottom of Form